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=> e sanders ira/au
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E12
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    ANSWER 1 OF 1 CAPLUS COPYRIGHT 2007 ACS on STN
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ΑN
    2004:467981 CAPLUS
DN
    141:17606
TI
    Use of a clostridial neurotoxin for the treatment of mammalian
    physiological reaction of IgE antibodies present upon contact
    with the corresponding antigen
    Sanders, Ira
IN
PA
    USA
SO
    PCT Int. Appl., 28 pp.
    CODEN: PIXXD2
DT
    Patent
    English
LA
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                                           APPLICATION NO.
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                        KIND
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PI
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            LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM,
             PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN,
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    AU 2003295769
                         A1
                               20040618
                                           AU 2003-295769
                                                                  20031120
                               20050824 EP 2003-786972
    EP 1565210
                         A2
                                                                 20031120
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             IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK
                                           US 2005-535504
    US 2006008462
                         A1
                               20060112
                                                                  20050518
                         Р
PRAI US 2002-427749P
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    WO 2003-US37286
                         W
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=> s e3 and clostrid?
             4 "SANDERS IRA"/AU AND CLOSTRID?
=> dup rem 12
PROCESSING COMPLETED FOR L2
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ANSWER 1 OF 4 CAPLUS COPYRIGHT 2007 ACS on STN
L3
     2004:740453 CAPLUS
AN
DN
     141:236713
TI
     Cell membrane translocation of regulated SNARE inhibitors, compositions
     therefor, and methods for treatment of disease
     Sanders, Ira
IN
PA
     USA
SO
    PCT Int. Appl., 68 pp.
    CODEN: PIXXD2
DT
    Patent
    English
LA
FAN.CNT 1
    PATENT NO.
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PΙ
    WO 2004076634
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             GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC,
             LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI
        RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE,
             BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU,
             MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN,
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                               20051130
                                          EP 2004-714146
                         A2
                                                                  20040224
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    US 2006153876
                         A1
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                                                                  20050817
PRAI US 2003-449107P
                         Р
                               20030224
    WO 2004-US5436
                        W
                               20040224
    Compns. and methods of modulating cellular function and treatment of
AB
    disease in mammals are disclosed which comprise locally administering a
    regulated SNARE inhibitor and a translocating agent to the mammal.
    Regulated SNARE inhibitors include clostridial neurotoxins,
     tetanus neurotoxin and their free light chain portions and IgA protease.
     Translocating agents include acids, encapsulating vectors, and
     transduction domains.
    ANSWER 2 OF 4 CAPLUS COPYRIGHT 2007 ACS on STN
L3
ΑN
    2004:467981 CAPLUS
DN
     141:17606
    Use of a clostridial neurotoxin for the treatment of mammalian
TI
    physiological reaction of IgE antibodies present upon contact with the
    corresponding antigen
IN
    Sanders, Ira
PA
    USA
SO
    PCT Int. Appl., 28 pp.
    CODEN: PIXXD2
DT
    Patent
    English
LA
FAN.CNT 1
    PATENT NO.
                        KIND
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                                         APPLICATION NO.
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PΙ
    WO 2004048519
                        A2
                               20040610
                                           WO 2003-US37286
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    WO 2004048519
                        A3
                               20040701
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             GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,
             LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM,
             PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN,
             TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW
        RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ,
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             ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG
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                                20060112
                                             US 2005-535504
                                                                      20050518
     US 2006008462
                           A1
PRAI US 2002-427749P
                           Ρ
                                 20021121
     WO 2003-US37286
                          W
                                 20031120
     A method is disclosed for blocking or reducing physiol. reaction in a
AB
     mammal to the interaction of IgE antibodies present in the mammal upon
     contact with the corresponding antigen, by the administration to the
     mammal of a therapeutically effective amount of a neurotoxin derived from
     Clostridia sp.
     ANSWER 3 OF 4 CAPLUS COPYRIGHT 2007 ACS on STN
L3
AN
     2004:162795 CAPLUS
     140:193112
DN
     Treatment of holocrine gland dysfunction with clostridial
TI
     neurotoxins
     Sanders, Ira; Aquila, Rosemary
ΙN
PA
     USA
so
     PCT Int. Appl., 27 pp.
     CODEN: PIXXD2
DT
     Patent
LA
     English
FAN.CNT 1
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     WO 2004016763
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             GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,
             LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM,
             PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN,
             TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
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             KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES,
             FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR,
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                                             US 2005-524304
     US 2005220820
                           Al
                                 20051006
                                                                      20050208
PRAI US 2002-404378P
                           P
                                 20020819
                                 20030818
     WO 2003-US25708
                           W
     Methods of using clostridial toxins and other biol. agents to
AB
     control holocrine gland dysfunction in humans is provided. In preferred
     embodiments, the methods provide beneficial effects in humans.
     ANSWER 4 OF 4 CAPLUS COPYRIGHT 2007 ACS on STN
L3
     1995:988229 CAPLUS
AN
DN.
     124:21809
     Treatment of automatic nerve dysfunctions with botulinum toxin
TI
     Sanders, Ira; Shaari, Christopher M.
IN
     Mount Sinai School of Medicine of the City University of New York, USA
PA
     PCT Int. Appl., 39 pp.
SO
     CODEN: PIXXD2
DT
     Patent.
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LA
    English
FAN.CNT 1
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    PATENT NO.
                        KIND
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PΙ
    WO 9528171
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                        Al 19960410
                                        EP 1995-916366
    EP 705106
                                                                 19950413
        R: DE, FR, GB, IT
PRAI US 1994-228132 A
                               19940415
    WO 1995-US4558
                        W
                               19950413
    There is disclosed a method for the control of autonomic nerve function in
AB
    a mammal comprising administering a therapeutically effective amount of
    botulinum toxin to the mammal. Preferred embodiments include
    administering the toxin to control the function of an autonomic nerve
    which contributes to at least one symptom of rhinorrhea, otitis media,
    excessive salivation, asthma, COPD, excessive stomach acid secretion,
    spastic colitis or excessive sweating. For example, rhinorrhea can be
    treated by administering botulinum toxin onto the nasal mucosa or by
     injecting into the sphenopalatine ganglion.
=> s IgE and (clostrid?)
          118 IGE AND (CLOSTRID?)
=> s 14 and toxin?
           44 L4 AND TOXIN?
=> dup rem 15
PROCESSING COMPLETED FOR L5
            31 DUP REM L5 (13 DUPLICATES REMOVED)
=> d bib ab 1-
YOU HAVE REQUESTED DATA FROM 31 ANSWERS - CONTINUE? Y/(N):y
    ANSWER 1 OF 31 CAPLUS COPYRIGHT 2007 ACS on STN
AN
    2007:817006 CAPLUS
DN
    147:197358
    Stable therapeutic formulations
    Ameri, Mahmoud; Cormier, Michel J. N.; Sellers, Scott; Maa, Yuh-Fun
    Alza Corp., USA
    PCT Int. Appl., 50pp.
    CODEN: PIXXD2
DT
    Patent
LA
    English
FAN.CNT 1
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    WO 2007084247
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            GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN,
            KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK,
            MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO,
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            CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH,
            GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY,
            KG, KZ, MD, RU, TJ, TM
                     A1
    US 2007184096
                               20070809
                                          US 2006-617639
                                                                 20061228
PRAI US 2005-754948P
                        P
                               20051228
    Compns. of and methods for formulating and delivering biol. active agent
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formulations having enhanced phys. stability, and wherein deterioration from the presence of oxygen and/or water is minimized and/or controlled, to yield a stable formulation are claimed. The compns. of and methods for formulating and delivering biol. active agents of the present invention further facilitate their incorporation into a biocompatible coating which can be employed to coat a stratum corneum piercing microprojection, or a plurality of stratum corneum piercing microprojections of a delivery device, for delivery of the biocompatible coating through the skin of a subject, thus providing an effective means of delivering the biol. active agents. A delivery device having stratum corneum piercing microprojections coated with a formulation of hPTH (1-34) was prepared The primary packaging for all dosages of the systems was a heat sealed foil pouch purged with nitrogen gas. The moisture and oxygen levels were substantially reduced in the packages.

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ANSWER 2 OF 31 CAPLUS COPYRIGHT 2007 ACS on STN
L6
ΑN
    2006:678518 CAPLUS
DN
    145:123037
    Engineered immunoglobulin domains with modified structural loop region to
TI
    obtain antigen epitope binding and/or targeting property for analytical,
    diagnostic and therapeutic use
    Rueker, Florian; Wozniak-Knopp, Gordana
IN
PA
    Austria
SO
    PCT Int. Appl., 98 pp.
    CODEN: PIXXD2
DT
    Patent
LA
    English
FAN.CNT 1
    PATENT NO.
                        KIND
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                                           APPLICATION NO.
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                                         WO 2006-EP50059
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            MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE,
             SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC,
             VN, YU, ZA, ZM, ZW
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    EP 1699826
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                                           EP 2006-11173
    EP 1772465
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                         A1
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             BA, HR, MK, YU
PRAI US 2005-641144P
                         P
                                20050105
    EP 2006-703578
                         A3
                                20060105
    WO 2006-EP50059
                         W
                               20060105
    Method for engineering an Ig comprising at least one modification in a
AB
     structural loop region of said Ig and determining the binding of said Ig to an
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epitope of an antigen, wherein the unmodified Ig does not significantly bind to said epitope, comprising the steps of: providing a nucleic acid encoding an Ig comprising at least one structural loop region, modifying

at least one nucleotide residue of at least one of said structural loop regions, transferring said modified nucleic acid in an expression system, expressing said modified Ig, contacting the expressed modified Ig with an epitope, and determining whether said modified Iq binds to said epitope, as

well

as modified Igs.

RE.CNT 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

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L6
     ANSWER 3 OF 31 CAPLUS COPYRIGHT 2007 ACS on STN
AN
     2006:654061 CAPLUS
DN
     145:102141
     Anti-toxin antibodies stabilized for oral delivery
TI
TN
     Hansen, Genevieve; Demarest, Stephen J.
     Diversa Corporation, USA
PΑ
     PCT Int. Appl., 263 pp.
SO
     CODEN: PIXXD2
DT
     Patent
     English
LA
FAN.CNT 1
     PATENT NO.
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                              DATE
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                       A2
     WO 2006071877
                              20060706
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WO 2005-US47100 A2 A3 20051222 WO 2006071877 20070405 W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AP, EA, EP, OA AU 2005-321974 AU 2005321974 A1 20060706 20051222

DATE

PRAI US 2004-639827P P 20041227 WO 2005-US47100

W 20051222

AB The authors disclose engineering of therapeutic antibodies to increase their stability and resistance to proteases, e.g., in the digestive tract. Protease cleavage motifs are identified and subsequently modified to reduce or eliminate cleavage at that site. In one example, neutralizing antibodies, stabilized to low pH and pepsin degradation, were engineered against Clostridium difficile toxin A. In addition, the authors also disclose combinations of monoclonal antibodies that work synergistically to neutralize bacterial toxins.

- ANSWER 4 OF 31 BIOSIS COPYRIGHT (c) 2007 The Thomson Corporation on STN L6
- AN2006:414826 BIOSIS
- DN PREV200600422488
- TI 1st Annual Conference of the Swiss Network on Horse Research, Avenches, SWITZERLAND.
- ΑU Anonymous
- SO Schweizer Archiv fuer Tierheilkunde, (APR 2006) Vol. 148, No. 4, pp.

Meeting Info.: 1st Annual Conference of the Swiss Network on Horse Research. Avenches, SWITZERLAND. 20060412,. CODEN: SATHAA. ISSN: 0036-7281.

- Conference; (Meeting) DT
 - Conference; (Meeting Summary)
- LΑ English
- ED Entered STN: 23 Aug 2006

Last Updated on STN: 23 Aug 2006

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etiology and treatment of inflammatory airway disease and recurrent airway
     obstruction in horses, laparascopic surgery procedures, toxicoinfection in
     grazing horses, the role of T cells in insect bite hypersensitivity
     development, antibiotic treatment in foals and equine genetics.
     ANSWER 5 OF 31 CAPLUS COPYRIGHT 2007 ACS on STN
L6
ΑN
     2005:238846 CAPLUS
     142:309938
ĎΝ
ΤI
     Re-targeted toxin conjugates
     Foster, Keith; Chaddock, John; Penn, Charles
IN
     Health Protection Agency, UK
PA
so
     PCT Int. Appl., 66 pp.
     CODEN: PIXXD2
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     Patent
     English
LΑ
FAN.CNT 1
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                        A2
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     WO 2005023309 ·
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                         A1
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     EP 1667725
                         A2
                                20060614
                                           EP 2004-768450
                                                                  20040913
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             IE, SI, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK
     JP 2007505094
                         T
                               20070308
                                         JP 2006-525899
                                                                  20040913
     US 2007184048
                         Al
                                20070809
                                           US 2006-571515
                                                                  20060907
PRAI GB 2003-21344
                        Α
                                20030911
                        W
                                20040913
     WO 2004-GB3904
     The present invention provides a method for designing a re-targeted
AB
     toxin conjugate for use in treating a medical condition or
     disease. Also provided, is the use of said conjugates in the manufacture of a
     medicament for treating medical conditions or diseases. The conjugates
     include a Targeting Moiety, which directs the conjugate to a desired
     target cell, and are characterized by a Targeting Moiety that increases
     exocytic fusion in the target cell. The present invention also provides
     methods for identifying agonists suitable for use as Targeting Moieties,
     and methods for preparing conjugates comprising said Targeting Moieties.
     ANSWER 6 OF 31 CAPLUS COPYRIGHT 2007 ACS on STN
L6
     2005:614580 CAPLUS
AN
DN
     143:139175
    Frequency-assisted transdermal agent delivery method and system
TI
IN
     Chan, Keith T.; Cormier, Michel J. N.; Lin, WeiQi
PA
SO
     U.S. Pat. Appl. Publ., 24 pp.
     CODEN: USXXCO
DT
     Patent
LA
     English
FAN.CNT 1
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APPLICATION NO.

DATE

This meeting, which focuses on animal husbandry, contains abstracts of 41

papers, written in English, French and German. Topics include the

AB

PATENT NO.

KIND

DATE

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US 2004-971441
PΙ
                             A1
                                    20050714
                                                                             20041021
     US 2005153873
                                     20050804
                                                  AU 2004-314416
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     AU 2004314416
                             A1
     WO 2005069758
                                    20050804
                                               . WO 2004-US34923
                                                                             20041021
                             A2
              AE 20050804 WO 2004-0534923 20041021

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LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI,
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     BR 2004017757
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                             Α
                                                                             20041021
     JP 2007519446
                             T
                                     20070719
                                                JP 2006-549239
                                                                             20041021
PRAI US 2004-535275P
                             Р
                                     20040109
     WO 2004-US34923
                             W
                                     20041021
     The invention discloses an apparatus and method for transdermally delivering a
AB
     biol. active agent comprising a delivery system having a microprojection
     member (or system) that includes a plurality of microprojections (or array
     thereof) that are adapted to pierce through the stratum corneum into the
     underlying epidermis layer, or epidermis and dermis layers, a formulation
     containing the biol. active agent and an oscillation-inducing device. In one
     embodiment, the biol. active agent is contained in a biocompatible coating
     that is applied to the microprojection member. In a further embodiment,
     the delivery system includes a gel pack having an agent-containing hydrogel
     formulation that is disposed on the microprojection member after
     application to the skin of a patient. In an alternative embodiment, the
     biol. active agent is contained in both the coating and the hydrogel
     formulation.
     ANSWER 7 OF 31 CAPLUS COPYRIGHT 2007 ACS on STN
L6
ΑN
     2005:524977 CAPLUS
DN
     143:20047
TI
     Lipid rafts and clostridial toxins
IN
     Li, Shengwen; Aoki, Kei Roger
PA
     U.S. Pat. Appl. Publ., 17 pp.
SO
     CODEN: USXXCO
DT
     Patent
LA
     English
FAN.CNT 1
                                                  APPLICATION NO.
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ΡI
     US 2005129677
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     AU 2004315599
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                                    20050825
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     WO 2005077416
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               NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY,
               TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
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               RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML,
               MR, NE, SN, TD, TG
                                                EP 2004-821355
     EP 1691799
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                                                                             20041210
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          R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
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IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK, BA, HR, IS, YU

JP 2007516257 T 20070621 JP 2006-543976 20041210

PRAI US 2003-732703 A 20031210 WO 2004-US41235 W 20041210

AB The present invention is directed to methods of altering the degree of internalization of a Clostridial toxin; methods of preventing or treating botulinum toxin intoxication; methods of treating metabolic disorders, muscular disorders, nervous system disorders, and/or pain conditions; methods of inhibiting the formation of lipid rafts on cell membranes; methods of treating a disease associated with lipid rafts; and methods of identifying a compound that alters the internalization of a Clostridial toxin.

L6 ANSWER 8 OF 31 CAPLUS COPYRIGHT 2007 ACS on STN

AN 2006:54068 CAPLUS

DN 144:306436

- TI Recombinant expression of Clostridium tetani tetanus toxin monoclonal antibody light chain variable region and its applications
- IN Gong, Jianghong; Li, Zhuoya
- PA Gong, Xiaodi, Peop. Rep. China
- SO Faming Zhuanli Shenqing Gongkai Shuomingshu, 33 pp. CODEN: CNXXEV

DT Patent

LA Chinese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
ΡI	CN 1634991	Α	20050706	CN 2003-10122187	20031230
PRAI	CN 2003-10122187		20031230	•	

- AB The present invention relates to recombinant expression of Clostridium tetani tetanus toxin monoclonal antibody light chain variable region. The monoclonal antibody comprises the variable region of antibody and/or constant region of light chain or heavy chain of antibody. The humanized monoclonal antibody is prepared by gene recombination technique and can be used for diagnosis, prevention, and treatment of Clostridium tetani infection.
- L6 ANSWER 9 OF 31 BIOSIS COPYRIGHT (c) 2007 The Thomson Corporation on STN
- AN 2005:20849 BIOSIS
- DN PREV200500024041
- TI Hybrid protein for inhibiting the degranulation of mastocytes and the use thereof.
- AU Bigalke, Hans [Inventor, Reprint Author]; Frevert, Jurgen [Inventor]
- CS Hannover, DE, USA
 - ASSIGNEE: BioteCon Therapeutics GmbH, Potsdam, Germany
- PI US 6822076 20041123
- SO Official Gazette of the United States Patent and Trademark Office Patents, (Nov 23 2004) Vol. 1288, No. 4. http://www.uspto.gov/web/menu/patdata.html

ISSN: 0098-1133 (ISSN print).

- DT Patent
- LA English
- ED Entered STN: 29 Dec 2004

Last Updated on STN: 29 Dec 2004

AB A hybrid protein contains a protein that binds to a receptor of mastocytes and basophils and is endocyted by them. The protein can be IgE; IgE fragment; IgE Fc fragment; antibody against IgE receptor of mastocytes and basophils; fragment of the antibody against the IgE receptor of mastocytes and basophils; antibody against mastocyte specific potassium channel; and mast cell degranulating peptide. The hybrid protein also contains a protease cleaving proteins of the secretion process of the mastocytes and basophils so as to inhibit the

secretion process without killing the mastocytes and basophils. protease can be light chain Clostridium botulinum toxin ; proteolytically active fragment of the light chain of a Clostridium botulinum toxin containing an amino acid sequence His-Xaa-Xaa-Xaa-His-Xaa-Xaa-His wherein Xaa is an amino acid; light chain of the tetanus toxin; proteolytically active fragment of the light chain of the tetanus toxin containing His-Asp-Leu-lIe-His-Val-Leu-His; IgA protease of Neisseria gonorrhoeae; and proteolytic domain of the IgA protease of Neisseria gonorrhoeae. ANSWER 10 OF 31 CAPLUS COPYRIGHT 2007 ACS on STN 2004:467981 CAPLUS 141:17606 Use of a clostridial neurotoxin for the treatment of mammalian physiological reaction of IgE antibodies present upon contact with the corresponding antigen Sanders, Ira USA PCT Int. Appl., 28 pp. CODEN: PIXXD2 Patent English FAN.CNT 1 KIND PATENT NO. DATE APPLICATION NO. DATE ______ ----------_____ _ ~ ~ ~ ~ ~ ~ ~ ~ WO 2003-US37286 20031120 WO 2004048519 A2 20040610 WO 2004048519 **A3** 20040701 AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG CA 2003-2507115 CA 2507115 **A1** 20040610 20031120 AU 2003-295769 AU 2003295769 A1 20040618 20031120 EP 1565210 A2 20050824 EP 2003-786972 20031120 AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK US 2005-535504 US 2006008462 A1 20060112 20050518 PRAI US 2002-427749P Ρ 20021121 WO 2003-US37286 W 20031120 A method is disclosed for blocking or reducing physiol. reaction in a mammal to the interaction of IqE antibodies present in the mammal upon contact with the corresponding antigen, by the administration to the mammal of a therapeutically effective amount of a neurotoxin derived from Clostridia sp. ANSWER 11 OF 31 CAPLUS COPYRIGHT 2007 ACS on STN 2004:609728 CAPLUS 141:156089 Amended recombinant microbial cells encoding γ interferon as antiviral agent, adjuvant and vaccine accelerant Gaertner, Frank H.; Lee, Stacey Lynn; Shutter, Robert W. Dow Agrosciences LLC, USA U.S. Pat. Appl. Publ., 34 pp. CODEN: USXXCO Patent English

DATE

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FAN.CNT 3

PATENT NO.

KIND

DATE

APPLICATION NO.

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PΙ
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                               20041014
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                         A2 -
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                                           WO 2003-US31815
                         A3
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            BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG
                                         AU 2003-3.04025
    AU 2003304025
                         A1
                               20041025
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                               20050706
                                           EP 2003-816565
                                                                  20031007
    EP 1549346
                         A2
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    BR 2003014542
                        Α
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                                           BR 2003-14542
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                         Α
                               20060118
                                           CN 2003-80105335
    CN 1723040
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                                           JP 2004-570237
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    US 2006040352
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                                           MX 2005-PA3692
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    MX 2005PA03692
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                                           US 2006-400840
    US 2006234346
                               20061019
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PRAI US 2002-417124P
                               20021008
    US 2003-681540
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    WO 2003-US31815
                        W
                               20031007
                        P
    US 2004-537148P
                               20040116
                        P
    US 2004-564798P
                               20040422
    US 2005-38901
                        A1
                               20050118
AΒ
    The present invention provides active cytokine and/or chemokine compns.,
    as well as inexpensive means for the production, amended-cell encasement of
    active cytokine and/or chemokine compns., processing, and delivery of
     active cytokine and/or chemokine compns. The subject invention also
    provides methods of treatment and methods of accelerating an immune
    response comprising the administration of amended recombinant cell (ARC)
     containing cytokine and/or chemokine compns. to animals or humans. In
     example, the amended recombinant cell was Pseudomonas fluorescens, and the
     cytokine was bovine \gamma interferon.
L6
    ANSWER 12 OF 31 CAPLUS COPYRIGHT 2007 ACS on STN
AN
     2003:300440 CAPLUS
DN
     138:319681
TI
    Genetically-detoxified pertussis holotoxin as proteinaceous adjuvant
    Gajewczyk, Diane M.; Boux, Heather A.; Novak, Anton; Klein, Michel H.
IN
PA
     U.S. Pat. Appl. Publ., 25 pp., Cont.-in-part of U.S. Ser. No. 258,228.
SO
     CODEN: USXXCO
DT
     Patent
LA
    English
FAN.CNT 3
                        KIND
                               DATE
                                           APPLICATION NO.
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                                           ______
                               20030417
                                           US 1995-481878
PΙ
    US 2003072774
                         A1
                                                                  19950607
    CA 2192454
                         A1
                               19951221
                                           CA 1995-2192454
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20011031

20030116

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE

20021031 PT 1995-924122

A1

A1

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T3

EP 1149588

EP 1149589

PT 764029

ES 2179105

EP 2001-201598

ES 1995-924122

EP 2001-201610

19950608

19950608

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19950608

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PRAI US 1994-258228 A2 19940610
EP 1995-924122 A3 19950608
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AB A modulated immune response to an antigen is achieved by coadministering the antigen and a genetically-detoxified pertussis holotoxin, particularly one retaining its immunogenicity, to a host. The modulated immune response enables immunogenic compns., including multivalent pediatric vaccines, such as DTP, to be provided which produce a modulated immune response in the absence of extrinsic adjuvants, such as alum. The adjuvanting effect achieved by the genetically-detoxified pertussis holotoxin enables at least the same level of a modulated immune response to a non-Bordetella antigen to be achieved as previously attained by alum, without the undesirable side effects thereof. Modifications are possible within the scope of the disclosed invention.

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L6 ANSWER 13 OF 31 CAPLUS COPYRIGHT 2007 ACS on STN
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AN 2003:241912 CAPLUS

DN 138:265639

TI Inhibiting the degranulation in mastocytes using a hybrid protein comprising a receptor-binding protein fused to a protease cleaving a protein of the secretion process

IN Bigalke, Hans; Frevert, Jurgen

PA Biotecon Gesellschaft Fur Biotechnologische Entwicklung Und Consulting Mbh, Germany

SO U.S. Pat. Appl. Publ., 7 pp., Cont.-in-part of U.S. Ser. No. 700,540. CODEN: USXXCO

DT Patent

LA English

FAN.CNT 2

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PATENT NO.
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                             DATE
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    US 2003059912
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PI
                       A1
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    US 6822076
                       B2
                              20041123
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    WO 9958571
                                         WO 1999-EP3272
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                              19991118
    WO 9958571
                       A3
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            JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK,
            MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ,
            TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW
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            CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
PRAI DE 1998-19821285 A
                             19980513
    WO 1999-EP3272
                        W
                              19990512
    US 2001-700540 '
                       A2
                              20010119
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AB A hybrid protein is provided containing a protein that binds to a receptor of mastocytes and basophils and is endocytosed by them. The protein can be IgE, IgE fragment, IgE Fc fragment, antibody against the IgE receptor of mastocytes and basophils, a fragment of the antibody against the IgE receptor of mastocytes and basophils, an antibody against mastocyte-specific potassium channel, or mast cell degranulating peptide. The hybrid protein also contains a protease which cleaves proteins of the secretion process of the mastocytes and basophils so as to inhibit the secretion process without killing the mastocytes and basophils. The protease can be the light chain of Clostridium botulinum toxin or its proteolytic fragments containing a His-Xaa-Xaa-Xaa-His-Xaa-Xaa-His sequence, the light chain of the tetanus toxin or proteolytically active fragment of the light chain containing His-Asp-Leu-Ile-His-Val-Leu-His, or an IgA protease of Neisseria gonorrhoeae and its proteolytic domain. Thus, a hybrid protein comprising IgE fused to the light chain of either Clostridium botulinum toxin or tetanus toxin

prevents allergic shock caused by dying mastocytes.

RE.CNT 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD

ALL CITATIONS AVAILABLE IN THE RE FORMAT

- L6 ANSWER 14 OF 31 BIOSIS COPYRIGHT (c) 2007 The Thomson Corporation on STN DUPLICATE 1
- AN 2003:190213 BIOSIS
- DN PREV200300190213
- TI Effects of large clostridial cytotoxins on activation of RBL 2H3-hm1 mast cells indicate common and different roles of Rac in FcepsilonRI and M1-receptor signaling.
- AU Djouder, Nabil; Aneiros, Eduardo; Cavalie, Adolfo; Aktories, Klaus [Reprint Author]
- CS Institut fuer Experimentelle und Klinische Pharmakologie und Toxikologie, der Albert-Ludwigs-Universitaet Freiburg, Albertstrasse 25, Otto Krayer Haus, D-79104, Freiburg, Germany klaus.aktories@pharmakol.uni-freiburg.de
- SO Journal of Pharmacology and Experimental Therapeutics, (March 2003) Vol. 304, No. 3, pp. 1243-1250. print. ISSN: 0022-3565 (ISSN print).
- DT Article
- LA English
- ED Entered STN: 16 Apr 2003 Last Updated on STN: 16 Apr 2003
- Using Rho GTPases-inhibiting clostridial cytotoxins, we showed AB recently in RBL cells that the GTPase Rac is involved in FcepsilonRI (high-affinity receptor for IgE) signaling and receptor-mediated calcium mobilization, including influx via calcium release-activated calcium channels. Here, we studied the role of Rho GTPases in muscarinic M1 receptor signaling in RBL 2H3-hm1 cells. Clostridium difficile toxin B, which inactivates Rho, Rac, and Cdc42, and Clostridium sordellii lethal toxin, which inhibits Rac but not Rho, blocked M1-mediated exocytosis, indicating that Rac but not Rho is involved in the regulation of receptor-mediated exocytosis. Although antigen-induced FcepsilonRI stimulation caused tyrosine phosphorylation of the Rac guanine nucleotide exchange factor Vav, M1 stimulation by carbachol activated Rac independently of Vav. Rac-inactivating toxins blocked M1 receptor-induced membrane translocation of the pleckstrin homology domain of protein kinase B, which is a phosphoinositide 3-kinase effector. The M1-induced calcium release from internal stores was not affected by toxin B; however, the subsequent calcium influx from the extracellular space was inhibited. data suggest that besides capacitative calcium entry, the M1 signaling pathway activates further calcium entry channels with mechanisms that are not affected by the inhibition of Rac.
- L6 ANSWER 15 OF 31 LIFESCI COPYRIGHT 2007 CSA on STN
- AN 2003:5772 LIFESCI
- TI Enhanced sensitisation of mice with diphtheria tetanus acellular pertussis vaccine to local swelling reaction to the booster immunisation
- AU Yamamoto, Akihiko; Nagata, Noriyo; Ochiai, Masaki; Kataoka, Michiyo; Toyoizumi, Hiromi; Okada, Kenji; Horiuchi, Yoshinobu
- CS Department of Bacterial Pathogenesis and Infection Control, National Institute of Infectious Diseases, 4-7-1 Gakuen, Musashimurayama, Tokyo 208-0011, Japan; E-mail: yama-aki@nih.go.jp
- SO Vaccine, (20020819) vol. 20, no. 25-26, pp. 3088-3094. ISSN: 0264-410X.
- DT Journal
- FS F; J
- LA English
- SL English
- AB Severe local swelling has been regarded as a serious safety problem for the booster immunisations of diphtheria tetanus acellular pertussis combined (DTaP) vaccine and DT combined toxoids (DT-td). We attempted to search for the factor of DTaP vaccines possibly contributing to the enhanced local reaction by using the mouse hind paw swelling reaction.

Mice were immunised intramuscularly with DTaP vaccine twice at 1-month interval and were challenged their hind paw with one of the antigens of DTaP vaccine 2 weeks later. D-td was shown to elicit the strongest swelling among the vaccine antigens. No causal relationship was found between the swelling and the level of immunoglobulin G (IgG) or IgE in mice. Residual pertussis toxin (PT) activity of DTaP vaccines for immunisation was shown to play a role in the enhanced sensitisation of mice to the D-td-related hind paw swelling.

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L6 ANSWER 16 OF 31 MEDLINE on STN
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- AN 2001298444 MEDLINE
- DN PubMed ID: 11380253
- TI Phospholipases stimulate secretion in RBL mast cells.
- AU Cohen J S; Brown H A
- CS Department of Molecular Medicine, Veterinary Medical Center, and Field of Biochemistry, Molecular and Cellular Biology, Cornell University, Ithaca, New York 14853-6401, USA.
- NC GM58516 (NIGMS)
- SO Biochemistry, (2001 Jun 5) Vol. 40, No. 22, pp. 6589-97. Journal code: 0370623. ISSN: 0006-2960.
- CY United States
- DT Journal; Article; (JOURNAL ARTICLE)
 (RESEARCH SUPPORT, NON-U.S. GOV'T)
 (RESEARCH SUPPORT, U.S. GOV'T, NON-P.H.S.)
 (RESEARCH SUPPORT, U.S. GOV'T, P.H.S.)
- LA English
- FS Priority Journals
- EM 200108
- ED Entered STN: 20 Aug 2001 Last Updated on STN: 20 Aug 2001 Entered Medline: 16 Aug 2001
- Roles for glycerophospholipids in exocytosis have been proposed, but AB remain controversial. Phospholipases are stimulated following the activation of the high-affinity receptor for immunoglobulin E (IgE) in mast cells. To study the biochemical sequelae that lead to degranulation, broken cell systems were employed. We demonstrate that the addition of three distinct types of exogenous phospholipases (i.e., bcPLC, scPLD, and tfPLA(2)), all of which hydrolyze phosphatidylcholine (PC), trigger degranulation in permeabilized RBL-2H3 cells, a mucosal mast cell line. Production of bioactive lipids by these phospholipases promotes release of granule contents through the plasma membrane and acts downstream of PKC, PIP(2), and Rho subfamily GTPases in regulated secretion. These exogenous phospholipase-induced degranulation pathways circumvent specific factors activated following stimulation of the IgE receptor as well as in ATP- and GTP-dependent intracellular pathways. Taken together, these results suggest that regulated secretion may be achieved in vitro in the absence of cytosolic factors via phospholipase activation and that products of PC hydrolysis can promote exocytosis in mast cells.
- L6 ANSWER 17 OF 31 CAPLUS COPYRIGHT 2007 ACS on STN DUPLICATE 2
- AN 2001:100080 CAPLUS
- DN 134:264878
- TI Rac and phosphatidylinositol 3-kinase regulate the protein kinase B in FceRI signaling in RBL 2H3 mast cells
- AU Djouder, Nabil; Schmidt, Gudula; Frings, Monika; Cavalie, Adolfo; Thelen, Marcus; Aktories, Klaus
- CS Institut fur Pharmakologie und Toxikologie der Universitat Freiburg, Freiburg, D-79104, Germany
- SO Journal of Immunology (2001), 166(3), 1627-1634 CODEN: JOIMA3; ISSN: 0022-1767
- PB American Association of Immunologists
- DT Journal
- LA English

- FccRI signaling in rat basophilic leukemia cells depends on AB phosphatidylinositol 3-kinase (PI3-kinase) and the small GTPase Rac. Here, the authors studied the functional relation among PI3-kinase, its effector protein kinase B (PKB), and Rac using inhibitors of PI3-kinase and toxins inhibiting Rac. Wortmannin, an inhibitor of PI3-kinase, blocked FceRI-mediated tyrosine phosphorylation of phospholipase Cy, inositol phosphate formation, calcium mobilization, and secretion of hexosaminidase. Similarly, Clostridium difficile toxin B, which inactivates all Rho GTPases including Rho, Rac and Cdc42, and Clostridium sordellii lethal toxin, which inhibits Rac (possibly Cdc42) but not Rho, blocked these responses. Stimulation of the Fc ϵ RI receptor induced a rapid increase in the GTP-bound form of Rac. Whereas toxin B inhibited the Rac activation, PI3-kinase inhibitors (wortmannin and LY294002) had no effect on activation of Rac. In line with this, wortmannin had no effect on tyrosine phosphorylation of the guanine nucleotide exchange factor Vav. Wortmannin, toxin B, and lethal toxin inhibited phosphorylation of PKB on Ser473. Similarly, translocation of the pleckstrin homol. domain of PKB tagged with the green fluorescent protein to the membrane, which was induced by activation of the FceRI receptor, was blocked by inhibitors of PI3-kinase and Rac inactivation. Our results indicate that in rat basophilic leukemia cells Rac and PI3-kinase regulate PKB and suggest that Rac is functionally located upstream and/or parallel of PI3-kinase/PKB in FceRI signaling.
- RE.CNT 65 THERE ARE 65 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT
- L6 ANSWER 18 OF 31 CAPLUS COPYRIGHT 2007 ACS on STN
- AN 2000:445738 CAPLUS
- DN 133:188989
- TI Inhibition of calcium release-activated calcium current by Rac/Cdc42-inactivating clostridial cytotoxins in RBL cells
- AU Djouder, Nabil; Prepens, Ulrike; Aktories, Klaus; Cavalie, Adolfo
- CS Institut fur Pharmakologie und Toxikologie der Universitat Freiburg, Freiburg, D-79104, Germany
- SO Journal of Biological Chemistry (2000), 275(25), 18732-18738 CODEN: JBCHA3; ISSN: 0021-9258
- PB American Society for Biochemistry and Molecular Biology
- DT Journal
- LA English
- AB Using large clostridial cytotoxins as tools, the role of Rho GTPases in the activation of RBL 2H3 hml cells was studied. Clostridium difficile toxin B, which glucosylates Rho, Rac, and Cdc42, and Clostridium sordellii lethal toxin , which glucosylates Rac and Cdc42 but not Rho, inhibited the release of hexosaminidase from RBL cells mediated by the high affinity antigen receptor (FceRI). Addnl., toxin B and lethal toxin inhibited the intracellular Ca2+ mobilization induced by FceRI stimulation and thapsigargin, mainly by reducing the influx of extracellular Ca2+. In patch clamp recordings, toxin B and lethal toxin inhibited the calcium release-activated calcium current by .apprx.45%. Calcium release-activated calcium current, the receptor-stimulated Ca2+ influx, and secretion were inhibited neither by the Rho-ADP-ribosylating C3-fusion toxin C2IN-C3 nor by the actin-ADP-ribosylating Clostridium botulinum C2 toxin. The data indicate that Rac and Cdc42 but not Rho are not only involved in late exocytosis events but are also involved in Ca2+ mobilization most likely by regulating the Ca2+ influx through calcium release-activated calcium channels activated via FceRI receptor in RBL cells.
- RE.CNT 58 THERE ARE 58 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

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DN
     131:332099
     Hybrid protein for inhibiting the degranulation of mastocytes and the use
TI
     thereof
     Bigalke, Hans; Frevert, Jurgen
IN
     Biotecon Gesellschaft fur Biotechnologische Entwicklung und Consulting
PΑ
     m.b.H, Germany
     PCT Int. Appl., 22 pp.
SO
     CODEN: PIXXD2
DT
     Patent
LA
     German
FAN.CNT 2
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     WO 9958571
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         W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ,
             DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS,
             JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK,
             MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ,
         TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK,
             ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG,
             CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
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                                19991118
                                            CA 1999-2331274
     CA 2331274
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                                            AU 1999-42605
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     BR 9910359
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                                            BR 1999-10359
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     EP 1084146
                          A2
                                20010321
                                            EP 1999-950347
                                                                   19990512
     EP 1084146
                          В1
                                20021113
         R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, PT, IE, FI
                    A2
                                            HU 2001-3601
     HU 200103601
                                20020128
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                         Т
     JP 2002514659
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                                            JP 2000-548373
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                         T3
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                                            RU 2000-131217
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                                            CZ 2000-4161
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     NO 2000005637
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                                            NO 2000-5637
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                                            MX 2000-PA11148
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                                20030221
                                            HK 2001-106685
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                                20030327
                                            US 2002-64903
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     US 6822076
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PRAI DE 1998-19821285
                          Α
                                19980513
     WO 1999-EP3272
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                                19990512
     US 2001-700540
                         A2
                                20010119
ΑB
     The invention relates to a hybrid protein comprising or comprised of (i) a
     known protein which binds to mastocytes and/or basophils in a known manner
     and/or is absorbed thereby, and of (ii) a protease which splits one or
     more proteins of the secretory apparatus of the mastocytes and/or basophils.
     The examples discuss the synthesis of these hybrid proteins using
     expression vectors expressed in E. coli.
     ANSWER 20 OF 31 BIOSIS COPYRIGHT (c) 2007 The Thomson Corporation on
L6
     STN
                                                        DUPLICATE 3
AN
     1999:692 BIOSIS
     PREV199900000692
DN
TI
     Fc receptor-mediated phagocytosis requires CDC42 and Rac1.
ΑU
     Massol, Philippe; Montcourrier, Philippe; Guillemot, Jean-Claude;
     Chavrier, Philippe [Reprint author]
     Cent. Immunol. INSERM-CNRS Marseille-Luminy, Case 906, 13288 Marseille
CS
     Cedex 9, France
     EMBO (European Molecular Biology Organization) Journal, (Nov. 2, 1998)
SO
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Vol. 17, No. 21, pp. 6219-6229. print.

AN

1999:736768 CAPLUS

CODEN: EMJODG. ISSN: 0261-4189.

- DT Article
- LA English
- ED Entered STN: 11 Jan 1999 Last Updated on STN: 11 Jan 1999
- At the surface of phagocytes, antibody-opsonized particles are recognized AB by surface receptors for the Fc portion of immunoglobulins (FcRs) that mediate their capture by an actin-driven process called phagocytosis which is poorly defined. We have analyzed the function of the Rho proteins Racl and CDC42 in the high affinity receptor for IgE (FcepsilonRI) -mediated phagocytosis using transfected rat basophil leukemia (RBL-2H3) mast cells expressing dominant inhibitory forms of CDC42 and Rac1. Binding of opsonized particles to untransfected RBL-2H3 cells led to the accumulation of F-actin at the site of contact with the particles and further, to particle internalization. This process was inhibited by Clostridium difficile toxin B, a general inhibitor of Rho GTP-binding proteins. Dominant inhibition of Racl or CDC42 function severely inhibited particle internalization but not F-actin accumulation. Inhibition of CDC42 function resulted in the appearance of pedestal-like structures with particles at their tips, while particles bound at the surface of the Racl mutant cell line were enclosed within thin membrane protrusions that did not fuse. These phenotypic differences indicate that Rac1 and CDC42 have distinct functions and may act cooperatively in the assembly of the phagocytic cup. Inhibition of phagocytosis in the mutant cell lines was accompanied by the persistence of tyrosine-phosphorylated proteins around bound particles. Phagocytic cup closure and particle internalization were also blocked when phosphotyrosine dephosphorylation was inhibited by treatment of RBL-2H3 cells with phenylarsine oxide, an inhibitor of protein phosphotyrosine phosphatases. Altogether, our data show that Racl and CDC42 are required to coordinate actin filament organization and membrane extension to form phagocytic cups and to allow particle internalization during FcR-mediated phagocytosis. Our data also suggest that Racl and CDC42 are involved in phosphotyrosine dephosphorylation required for particle internalization.
- L6 ANSWER 21 OF 31 CAPLUS COPYRIGHT 2007 ACS on STN
- AN 1998:363180 CAPLUS
- DN 129:91616
- TI Effects of toxin A from Clostridium difficile on mast cell activation and survival
- AU Calderon, Gloria M.; Torres-Lopez, Javier; Lin, Tong-Jun; Chavez, Bibiana; Hernandez, Manuel; Munoz, Onofre; Befus, A. Dean; Enciso, J. Antonio
- CS UIMEIP, Hospital de Pediatra, CMN Siglo XXI, IMSS, Mexico City, 06725,
- SO Infection and Immunity (1998), 66(6), 2755-2761 CODEN: INFIBR; ISSN: 0019-9567
- PB American Society for Microbiology
- DT Journal
- LA English
- Toxins A and B from C. difficile are the main cause of AΒ antibiotic-associated diarrhea and pseudomembranous colitis. fluid accumulation, necrosis, and a strong inflammatory response when inoculated in intestinal loops. Since mast cells are a rich source of inflammatory mediators, abundant in the gut, and known to be involved in C. difficile-induced enteritis, the authors studied the in vitro effect of toxin A on isolated mast cells. Normal rats sensitized by infection with Nippostrongilus brasiliensis were used to isolate peritoneal mast cells (PMC). PMC from naive rats were stimulated with calcium ionophore A23187 as a model of antigen-independent activation, and PMC from sensitized rats were stimulated with N. brasiliensis antigens to study IgE-dependent mast cell activation. After 4 h, toxin A did not induce the release of nitric oxide or histamine in naive PMC. However, 10 ng of toxin per mL caused a significant release of tumor necrosis factor α (TNF- α). In contrast, 1

 μg of toxin per mL inhibited antigen or A23187-induced histamine release by PMC. Toxin A at 1 $\mu g/mL$ for 4 h caused the disruption of actin which aggregated in the cytoplasm and around the nucleus. After 24 h, chromatin condensation, cytoplasmic blebbing, and apoptotic-like vesicles were observed; DNA fragmentation was documented also. These results suggest that mast cells may participate in the initial inflammatory response to C. difficile infection by releasing TNF- α upon interaction with toxin A. However, longer exposure to toxin A affects the release of inflammatory mediators, perhaps because of the alteration of the cytoskeleton and induction of apoptosis. The impaired functions and survival of mast cells by C. difficile toxin A could hamper the capacity of these cells to counteract the infection, thus prolonging the pathogenic effects of C. difficile toxins.

RE.CNT 47 THERE ARE 47 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

- L6 ANSWER 22 OF 31 CAPLUS COPYRIGHT 2007 ACS on STN DUPLICATE 4
- AN 1998:137930 CAPLUS
- DN 128:267074
- TI Influence of Clostridium botulinum C2 toxin on FccRI-mediated secretion and tyrosine phosphorylation in RBL cells
- AU Prepens, Ulrike; Barth, Holger; Wilting, Jorg; Aktories, K.
- CS Institut fur Pharmakologie und Toxikologie der Albert-Ludwigs-Universitat Freiburg, Hermann-Herder-Strasse 5, Freiburg, D-79104, Germany
- SO Naunyn-Schmiedeberg's Archives of Pharmacology (1998), 357(3), 323-330 CODEN: NSAPCC; ISSN: 0028-1298
- PB Springer-Verlag
- DT Journal
- LA English
- The authors studied the effects of the binary Clostridium AB botulinum C2 toxin on stimulated [3H] serotonin release and protein tyrosine phosphorylation in RBL 2H3 hml cells. Actin was specifically ADP-ribosylated by C2 toxin in intact cells resulting in a 2-3 fold increase in antigen- or calcium ionophore (A23187)-induced degranulation. The effects of C2 toxin were time- and concentration-dependent. Toxin treatment, which dramatically changes the morphol. of RBL cells, was not sufficient to induce mediator release in the absence of activators of secretion. Antigen- and A23187-stimulated tyrosine phosphorylation of 60-80 kDa and 110-120 kDa proteins was reduced or blocked after C2 toxin incubation. Treatment of RBL cells with the tyrosine phosphatase inhibitor pervanadate reversed the inhibitory effect of C2 toxin on stimulated protein tyrosine phosphorylation indicating activation of phosphatases by C2 toxin. The data indicate that disassembly of the actin cytoskeleton by C2 toxin facilitates FceRI-mediated signal-secretion coupling and suggest a role of the actin cytoskeleton in phosphatase regulation in RBL cells.
- RE.CNT 59 THERE ARE 59 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT
- L6 ANSWER 23 OF 31 BIOSIS COPYRIGHT (c) 2007 The Thomson Corporation on STN DUPLICATE 5
- AN 1998:272096 BIOSIS
- DN PREV199800272096
- TI Role of RHO family GTP-binding proteins in IgE receptor-mediated phospholipase D activation in mast cells.
- AU Ojio, Katsuhiro [Reprint author]; Banno, Yoshiko; Hayakawa, Kazuki; Ito, Yatsuji; Kato, Naoki; Watanabe, Kunitomo; Miyata, Hideo; Nozawa, Yoshinori
- CS Dep. Otolaryngol., Gifu Univ. Sch. Med., Tsukasamachi 40, Gifu 500-9705,
- SO Biomedical Research (Tokyo), (Feb., 1998) Vol. 19, No. 1, pp. 53-63. print.

CODEN: BRESD5. ISSN: 0388-6107.

DT Article

English LΑ

Entered STN: 24 Jun 1998 EDLast Updated on STN: 24 Jun 1998

- To investigate the role of Rho family proteins in antigen-mediated AB phospholipase D (PLD) activation in cultured rat basophilic leukemia (RBL-2H3) mucosal mast cells, we used two toxins, Clostridium difficile toxin B (toxin B) and Clostridium botulinum C3 toxin (C3 toxin), which inhibit Rho family proteins by monoglucosylation and ADP-ribosylation, respectively. Pretreatment with toxin B caused rounding-out of RBL-2H3 cells, strong inhibition of antigen-induced PLD activation, and also a complete blockage of serotonin secretion. By contrast, C3 toxin was without effect on both PLD activation and serotonin secretion, although RhoA was markedly ADP-ribosylated. Recombinant ADP-ribosylation factor (Arf) stimulated the PLD activity in isolated membranes in a dose-dependent manner, and 4beta-phorbol 12-myristate 13-acetate (PMA) pretreatment of cells potentiated this recombinant Arf effect. The recombinant Arf- and PMA-stimulated PLD activities were partially inhibited by pretreatment with toxin B but not by C3 toxin. Stimulation of RBL cells with antigen induced translocation to membranes of factors involving PLD activation, e.g. protein kinase C (PKC) (alpha, beta2, delta6, epsilon) isozymes, Cdc42 and Arf, but not RhoA. These results suggest that the membrane-translocation of Cdc42 plays a major role in antigen-induced PLD activation in RBL cells and also that the translocated Arf and PKCs exert a co-operative effect for PLD activation.
- ANSWER 24 OF 31 BIOSIS COPYRIGHT (c) 2007 The Thomson Corporation on L6 STN DUPLICATE 6
- ΑN 1997:488094 BIOSIS
- PREV199799787297 DN
- Oral tolerance to ovalbumin in mice: Induction and long-term persistence unaffected by Staphylococcus aureus enterotoxin B and Clostridium perfringens type A enterotoxin.
- ΑU Gaboriau-Routhiau, Valerie [Reprint author]; Moreau, Marie-Christine
- UEPSD, Bat. 440, CRJ INRA, 78352 Jouy-en-Josas Cedex, France CS
- Pediatric Research, (1997) Vol. 42, No. 4, pp. 503-508. SO CODEN: PEREBL. ISSN: 0031-3998.
- DT Article
- English LA
- ED Entered STN: 7 Nov 1997
 - Last Updated on STN: 7 Nov 1997
- AB Oral administration of dietary antigen (Ag) results in the systemic Ag-specific immunologic unresponsiveness termed oral tolerance. Its induction is of importance in the young where numerous symptoms are associated with IgE-mediated food hypersensitivity reactions. Two related enterotoxins, cholera toxin and Escherichia coli heat-labile enterotoxin, have been shown to abrogate oral tolerance (i.e. IgG and IgE antibody (Ab) unresponsiveness) to an unrelated and simultaneously fed Au However, a critical role has been suggested for the gut flora in recovery of a hyporesponsive state. The purpose of the present study was to investigate whether the Staphylococcus aureus enterotoxin B (SEB) and Clostridium perfringens type A enterotoxin (CPE), involved in many diarrheas, could affect the induction and long-term persistence of oral tolerance to ovalbumin (OVA). Using conventional and germ-free mice fed once or twice with enterotoxin plus OVA, we investigated the possible role of the indigenous gut flora. addition, we tested the influence of CPE synthesized in vivo in the digestive tract of gnotobiotic mice on the induction of OVA-specific oral tolerance. Mice were immunized intraperitoneally with OVA twice, and IgG and IgE Ab levels were measured by ELISA. Neither SEB nor CPE, orally given or synthesized in vivo (CPE), prevented the induction of oral tolerance to OVA. Moreover, the IgG Ab unresponsiveness persisted over 2

mo in the conventional mice fed with toxin plus OVA as also observed in the OVA controls. The results indicate that, independent of the out flora's influence, SEB and CPE did not affect the induction and long-term persistence of oral tolerance to co-ingested Ag.

- L6 ANSWER 25 OF 31 MEDLINE on STN
- AN 96205904 MEDLINE
- DN PubMed ID: 8631752
- TI Inhibition of Fc epsilon-RI-mediated activation of rat basophilic leukemia cells by Clostridium difficile toxin B (monoglucosyltransferase).
- AU Prepens U; Just I; von Eichel-Streiber C; Aktories K
- CS Institut fur Pharmakologie und Toxikologie der Albert-Ludwigs-Universitat Freiburg, Germany.
- SO The Journal of biological chemistry, (1996 Mar 29) Vol. 271, No. 13, pp. 7324-9.
 - Journal code: 2985121R. ISSN: 0021-9258.
- CY United States
- DT Journal; Article; (JOURNAL ARTICLE) (RESEARCH SUPPORT, NON-U.S. GOV'T)
- LA English
- FS Priority Journals
- EM 199607
- ED Entered STN: 15 Jul 1996 Last Updated on STN: 6 Feb 1998 Entered Medline: 3 Jul 1996
- Treatment of rat basophilic leukemia (RBL) 2H3-hm1 cells with AB Clostridium difficile toxin B (2 ng/ml), which reportedly depolymerizes the actin cytoskeleton, blocked [3H] serotonin release induced by 2,4-dinitrophenyl-bovine serum albumin, carbachol, mastoparan, and reduced ionophore A23187-stimulated degranulation by about In lysates of RBL cells, toxin B 14C-glucosylated two major and one minor protein. By using two-dimensional gel electrophoresis and immunoblotting, RhoA and Cdc42 were identified as protein substrates In contrast to toxin B, Clostridium botulinum transferase C3 that selectively inactivates RhoA by ADP-ribosylation did not inhibit degranulation up to a concentration of 150 microg/ml. Antigen-stimulated tyrosine phosphorylation of a 110-kDa protein was inhibited by toxin B as well as by the phosphatidylinositol 3-kinase inhibitor wortmannin. Depolymerization of the microfilament cytoskeleton of RBL cells by C. botulinum C2 toxin or cytochalasin D resulted in an increased [3H] serotonin release induced by antigen, carbachol, mastoparan, or by calcium ionophore A23187, but without affecting toxin B-induced inhibition of degranulation. The data indicate that toxin B inhibits activation of RBL cells by glucosylation of low molecular mass GTP-binding proteins of the Rho subfamily (most likely Cdc42) by a mechanism not involving the actin cytoskeleton.
- L6 ANSWER 26 OF 31 BIOSIS COPYRIGHT (c) 2007 The Thomson Corporation on STN DUPLICATE 7
- AN 1996:576231 BIOSIS
- DN PREV199799290912
- TI Leukocyte-endothelial cell interactions evoked by mast cells.
- AU Kubes, Paul [Reprint author]; Granger, D. Neil
- CS Immunol. Res. Group, Univ. Calgary Med. Cent., Calgary, Alberta T2N 4N1, Canada
- SO Cardiovascular Research, (1996) Vol. 32, No. 4, pp. 699-708. CODEN: CVREAU. ISSN: 0008-6363.
- DT Article
 - General Review; (Literature Review)
- LA English
- ED Entered STN: 23 Dec 1996
 - Last Updated on STN: 23 Dec 1996

- In this review we have summarized some of the evidence to support the view AB that mast cells play a critical role in leukocyte recruitment to sites of inflammation. Initially, data using a pharmacological tool, compound 48/80, which directly activates mast cells, is reviewed, demonstrating that this reagent can induce the multi-step recruitment of leukocytes (rolling, adhesion and emigration) to sites of inflammation. The adhesive mechanisms and pro-inflammatory mediators implicated in mast cell-induced leukocyte recruitment are discussed. Additionally, data are presented to implicate mast cells in delayed-type hypersensitivity reactions as they pertain to leukocyte recruitment. There is a growing body of evidence to suggest that mast cells also recruit leukocytes in IgE -independent leukocyte recruitment. Ischemia/reperfusion- and bacterial toxin- (Helicobacter pylori and Clostridium difficile) induced leukocyte recruitment is at least in part mast cell dependent. Future directions including preliminary work highlighting the role of nitric oxide as a modulator of mast cell function and subsequent leukocyte recruitment is also discussed.
- L6 ANSWER 27 OF 31 BIOSIS COPYRIGHT (c) 2007 The Thomson Corporation on STN DUPLICATE 8
- AN 1996:407385 BIOSIS
- DN PREV199699129741
- TI Effect of Clostridium difficile toxin B on IgE receptor-mediated signal transduction in rat basophilic leukemia cells: Inhibition of phospholipase D activation.
- AU Ojio, Katsuhiro [Reprint author]; Banno, Yoshiko; Nakashima, Shigeru; Kato, Naoki; Watanabe, Kunitomo; Lyerly, David M.; Miyata, Hideo; Nozawa, Yoshinori
- CS Dep. Otolaryngology, Gifu Univ. Sch. Med., Tsukasamachi-40, Gifu, Japan
- SO Biochemical and Biophysical Research Communications, (1996) Vol. 224, No. 2, pp. 591-596.
 CODEN: BBRCA9. ISSN: 0006-291X.
- DT Article
- LA English
- ED Entered STN: 10 Sep 1996 Last Updated on STN: 10 Sep 1996
- AB Antigen (Ag)-stimulated phospholipase D (PLD) activation and secretion were almost abolished by pretreatment of rat basophilic leukemia (RBL)-2H3 cells for 4 h with 5 ng/ml Clostridium difficile Toxin

 B which is known to inhibit Rho family proteins (Rho, Cdc42, Rac). The concentration-dependent inhibition of PLD activation was well correlated with the level of glucosylation of Rho fan-Lily proteins. In streptolysin O-permeabilized RBL cells, Toxin B suppressed (3H) phosphatidylbutanol (PBut) formation in response to guanosine 5'-O-(3-thiotriphosphate) (GTP-gamma-S) and phorbol 12-myristate 13-acetate (PMA) by 67 and 43%, respectively. The synergistic PLD activation by GTP-gamma-S and PMA was also reduced by Toxin B by 67%. These results suggest that the IgE receptor-coupled PLD activation is largely mediated by Rho proteins.
- L6 ANSWER 28 OF 31 MEDLINE on STN
- AN 96235610 MEDLINE
- DN PubMed ID: 8690250
- TI Regulation of exocytosis by the small GTP-binding protein Rho in rat basophilic leukemia (RBL-2H3) cells.
- AU Yonei S G; Oishi K; Uchida M K
- CS Department of Molecular Pharmacology, Meiji College of Pharmacy, Tokyo, Japan.
- SO General pharmacology, (1995 Nov) Vol. 26, No. 7, pp. 1583-9. Journal code: 7602417. ISSN: 0306-3623.
- CY ENGLAND: United Kingdom
- DT Journal; Article; (JOURNAL ARTICLE)
 (RESEARCH SUPPORT, NON-U.S. GOV'T)
 (RESEARCH SUPPORT, U.S. GOV'T, P.H.S.)

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LA English
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FS Priority Journals

EM 199608

ED Entered STN: 11 Sep 1996 Last Updated on STN: 3 Mar 2000 Entered Medline: 27 Aug 1996

ADP-ribosyltransferase upon beta-hexosaminidase release induced by various stimuli from streptolysin-O (0.5-1 U/ml)-permeabilized rat basophilic leukemia (RBL-2H3) cells. 2. The C3 transferase inhibited beta-hexosaminidase release induced by Ca2+ or by guanosine-5'-(3-thiotriphosphate) (GTP gamma S) plus Ca2+. 3. The C3 transferase also inhibited beta-hexosaminidase release induced by stimulating high affinity IgE and m3 muscarinic acetylcholine receptors. 4. The substrate for the C3 transferase was present in cytosol of RBL-2H3 cells, indicating the presence of rho p21. About 60% of the total cellular substrate protein remained within the cells permeabilized by 1 U/ml of streptolysin-O. 5. The protein rho p21 appears to be regulated by several pathways and it may function as an integration point for exocytosis.

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L6 ANSWER 29 OF 31 CAPLUS COPYRIGHT 2007 ACS on STN
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AN 1982:421883 CAPLUS

DN 97:21883

- TI Immunoglobulin E-suppressing and immunoglobulin G-enhancing tetanus toxoid prepared by conjugation with pullulan
- AU Mitani, Shoko; Yamamoto, Akio; Ikegami, Hakuo; Usui, Mitsuko; Matuhasi, Tyoku
- CS Inst. Med. Sci., Univ. Tokyo, Tokyo, 108, Japan
- SO Infection and Immunity (1982), 36(3), 971-6 CODEN: INFIBR; ISSN: 0019-9567

DT Journal

LA English

AB IgE antibody response was suppressed selectively and antigen-specifically in mice given an antigen conjugated with pullulan, a linear copolymer of maltotriose, whereas IgM and IgG antibody responses were enhanced. On the basis of this finding, tetanus toxin was conjugated with pullulan by cyanuric chloride in the hope that the toxin would be detoxified by the conjugation procedure and could be used as an IgE-suppressing and IgG-enhancing toxoid without the aid of an Al(OH)3 adjuvant. This procedure of tetanus toxin -pullulan conjugation apparently detoxified the toxin.

Administration of the resulting tetanus toxoid (tetanus toxin -pullulan conjugate) to mice induced strong suppression of IgE antibody response with good IgG response, whereas the alum-precipitated toxoid or

plain toxoid, customarily used for vaccination, elicited high IgE antibody formation. The IgE antibody response was minimal, but the IgG antibody response was maximal in the conjugate-primed mice even after a booster injection with an IgE antibody-inducing dose of the alum-precipitated toxoid.

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L6 ANSWER 30 OF 31 LIFESCI COPYRIGHT 2007 CSA on STN
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AN 82:48649 LIFESCI

TI Elevation of levels of IgE antibody to tetanus toxin in individuals vaccinated with diptheria-pertussis-tetanus vaccine.

AU Matuhasi, T.; Ikegami, H.

CS Second Dep. Bacteriol., Natl. Inst. Health, Tokyo, Japan

SO J. INFECT. DIS., (1982) vol. 146, no. 2, pp. 290-291.

DT Journal

FS J; F

LA English

SL English

AB In the present study, levels of IgE antibody to tetanus toxin in the unvaccinated adults were < 100 units/ml (average,

similar to 70 units/ml), levels that were comparable with those of the unvaccinated infants. Levels of IgE antibody were significantly elevated in sera obtained from the infants after vaccination with DPT vaccine. Similar levels were detectable in the sera of the young adults (students from a nursing school). The levels of IgG antibody to tetanus toxin was also elevated in the young adults, although these levels were not elevated to the same extent as the levels of IgE antibody (data not shown). These findings indicate that, after immunization with DPT vaccine, levels of IgE antibody to tetanus toxin are elevated independently of levels of IgG antibody.

- L6 ANSWER 31 OF 31 CAPLUS COPYRIGHT 2007 ACS on STN
- AN 1981:575785 CAPLUS
- DN 95:175785
- TI Vaccine based on a biologically active substance joined to a saccharide
- IN Matuhashi, Tyoku; Usui, Mitsuko; Yamamoto, Akio; Mitsuhashi, Masakasu; Koyama, Shunsaku
- PA Hayashibara Biochemical Laboratories, Inc., Japan
- SO Fr. Demande, 18 pp.
 - CODEN: FRXXBL
- DT Patent
- LA French
- FAN. CNT 1

TAN. CNI I								
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE			
ΡI	FR 2464074	A1	19810306	FR 1980-19109	19800904			
	FR 2464074	B1	19830624					
	JP 56039022	A	19810414	JP 1979-112848	19790905			
	JP 57008090	В	19820215					
	US 4372883	Α	19830208	US 1980-178904	19800818			
	CA 1156553	A1	19831108	CA 1980-358690	19800820			
	DE 3032488	Al	19810402	DE 1980-3032488	19800828			
	DE 3032488	C2	19880609	•				
	GB 2061955	A	19810520	GB 1980-28230	19800902			
	GB 2061955	В	19830727					
PRAI	JP 1979-112848	Α	19790905					

AB Vaccines containing elevated contents of Igs (Ig) G and M and free of IgE and antibodies responsible for allergy and anaphylactic shock were prepared by the inactivation of a biol. toxic substance, e.g. bacterial toxins, by conjugation (covalence) with a saccharide. Thus, an antitetanus vaccine with low toxicity was prepared by conjugating the purified tetanus toxin with BrCN-activated pullulan, mol. weight 140,000. Administration of this vaccine produced .apprx.12 times more IgG and M, compared to the unconjugated toxin with which IgE was detected. Other saccharides used for the conjugation of these toxins were partially-hydrolyzed diazotized pullulan, elsinan, CM-cellulose, gum arabic, and maltotriose.

- => s ((BoNT)or(CnT)or(TeNT))
- L8 12271 ((BONT) OR(CNT) OR(TENT))
- => d bib ab
- L8 ANSWER 1 OF 12271 BIOSIS COPYRIGHT (c) 2007 The Thomson Corporation on STN
- AN 2007:450913 BIOSIS
- DN PREV200700456296
- TI Arsenic contents, and the physical and chemical properties of soil at an arsenic contaminated region in Nepal.
- AU Kondo, Fumiyoshi [Reprint Author]; Sugimoto, Yasuhiro; Toyomitsu, Yukio;

Yokota, Hiroshi

- CS Saga Univ, Fac Agr, 1 Honjo-machi, Saga 8408502, Japan
- Transactions of the Japanese Society of Irrigation Drainage and Reclamation Engineering, (APR 2007) Vol. 75, No. 2, pp. 81-87. ISSN: 0387-2335.
- DT Article
- LA English
- ED Entered STN: 22 Aug 2007

Last Updated on STN: 22 Aug 2007

AB The relationships between arsenic content and physical and chemical properties of soil at an arsenic contaminated region in Nepal were investigated. Arsenic content exceeding 150mg/kg was not detected in soils of agricultural land. In this case, it was found out that greater arsenic content occurred concomitantly with soils having higher cation exchange capacity. In boring core samples, accumulated arsenic content exceeding 150mg/kg was detected in the black-colored peat layer found at a depth of 10-11 m. It was assumed that the arsenic which was originally contained in this layer could easily leach into groundwater as a result of activity of microorganisms etc. In addition, it was also found out that greater arsenic con,tent occurred concomitantly with boring core samples having higher clay content, pH, and cation exchange capacity.

=> d kwic

- L8 ANSWER 1 OF 12271 BIOSIS COPYRIGHT (c) 2007 The Thomson Corporation on STN
- AB. . . into groundwater as a result of activity of microorganisms etc. In addition, it was also found out that greater arsenic con, tent occurred concomitantly with boring core samples having higher clay content, pH, and cation exchange capacity.
- => s ((BoNT)or(CnT)) L9 7792 ((BONT) OR(CNT))
- => d kwic
- L9 ANSWER 1 OF 7792 BIOSIS COPYRIGHT (c) 2007 The Thomson Corporation on STN
- AB. . . unique strain of Clostridium botulinum serotype D 4947 produces toxin complexes that are composed of un-nicked components, including a neurotoxin (BoNT) and auxiliary proteins. This BoNT showed aberrant elution upon Superdex gel filtration, indicating a much lower molecular weight, due to hydrophobic interaction with the column. Limited trypsin proteolysis of BoNT produces two nicks; first nick yielded a BoNT 50 kDa light chain disulfide linked to a 100 kDa heavy chain (Hc), and a second nick arose in Hc C-terminal 10 kDa. The second nick occurred in the putative binding domain of the BoNT molecule and induced alterations in its secondary structure, leading to a significant reduction of mouse toxicity in comparison with that of the fully-activated singly nicked BoNT. These results help to clarify the role of the C-terminal half of the Hc in the oral toxicity of single-chain and more complex forms of BoNT.

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- L9 ANSWER 1 OF 7792 BIOSIS COPYRIGHT (c) 2007 The Thomson Corporation on STN
- AN 2007:440396 BIOSIS
- DN PREV200700440956
- TI Effect of nicking the c-terminal region of the Clostridium botulinum serotype d neurotoxin heavy chain on its toxicity and molecular

properties.

- AU Suzuki, Tomonori; Kouguchi, Hirokazu; Watanabe, Toshihiro; Hasegawa, Kimiko; Yoneyama, Tohru; Niwa, Koichi; Nishikawa, Atsushi; Lee, Jae-Chul; Oguma, Keiji; Ohyama, Tohru [Reprint Author]
- CS Tokyo Univ Agr, Fac Bioind, Dept Food Sci and Technol, 196 Yasaka, Abashiri, Hokkaido 0992493, Japan t-oyama@bioindustry.nodai.ac.jp
- SO Protein Journal, (APR 2007) Vol. 26, No. 3, pp. 173-181. ISSN: 1572-3887.
- DT Article
- LA English
- ED Entered STN: 15 Aug 2007

Last Updated on STN: 15 Aug 2007

=> s 19 and IgE

L10 3 L9 AND IGE

=> d bib ab kwic 1-

YOU HAVE REQUESTED DATA FROM 3 ANSWERS - CONTINUE? Y/(N):y

- L10 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2007 ACS on STN
- AN 2006:1291807 CAPLUS
- DN 146:201074
- TI Label-Free Protein Biosensor Based on Aptamer-Modified Carbon Nanotube Field-Effect Transistors
- AU Maehashi, Kenzo; Katsura, Taiji; Kerman, Kagan; Takamura, Yuzuru; Matsumoto, Kazuhiko; Tamiya, Eiichi
- CS Institute of Scientific and Industrial Research, Osaka University, Osaka, 567-0047, Japan
- SO Analytical Chemistry (2007), 79(2), 782-787 CODEN: ANCHAM; ISSN: 0003-2700
- PB American Chemical Society
- DT Journal
- LA English
- The authors have fabricated label-free protein biosensors based on AB aptamer-modified carbon nanotube field-effect transistors (CNT -FETs) for the detection of IgE. After the covalent immobilization of 5'-amino-modified 45-mer aptamers on the CNT channels, the elec. properties of the CNT-FETs were monitored in real time. The introduction of target IgE at various concns. caused a sharp decrease in the source-drain current, and a gradual saturation was observed at lower concns. The amount of the net source-drain current before and after IqE introduction on the aptamer-modified CNT-FETs increased as a function of IgE concentration The detection limit for IgE was determined as 250 pM. The authors have also prepared CNT-FET biosensors using a monoclonal antibody against IgE (IgE-mAb). The elec. properties of the aptamer- and antibody-modified CNT-FETs were compared. performance of aptamer-modified CNT-FETs provided better results than the ones obtained using IgE-mAb-modified CNT-FETs under similar conditions. Thus, the authors suggest that the aptamer-modified CNT-FETs are promising candidates for the development of label-free protein biosensors.
- RE.CNT 44 THERE ARE 44 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT
- AB The authors have fabricated label-free protein biosensors based on aptamer-modified carbon nanotube field-effect transistors (CNT -FETs) for the detection of IgE. After the covalent immobilization of 5'-amino-modified 45-mer aptamers on the CNT channels, the elec. properties of the CNT-FETs were monitored in real time. The introduction of target IgE at various concns. caused a sharp decrease in the source-drain current, and a gradual saturation was observed at lower concns. The amount of the net source-drain current

before and after IgE introduction on the aptamer-modified CNT-FETs increased as a function of IgE concentration. The detection limit for IgE was determined as 250 pM. The authors have also prepared CNT-FET biosensors using a monoclonal antibody against IgE (IgE-mAb). The elec. properties of the aptamer- and antibody-modified CNT-FETs were compared. The performance of aptamer-modified CNT-FETs provided better results than the ones obtained using IgE-mAb-modified CNT-FETs under similar conditions. Thus, the authors suggest that the aptamer-modified CNT-FETs are promising candidates for the development of label-free protein biosensors.

IT Antibodies and Immunoglobulins

RL: ANT (Analyte); ANST (Analytical study)
(IgE; label-free protein biosensor based on aptamer-modified carbon nanotube field-effect transistors)

L10 ANSWER 2 OF 3 MEDLINE on STN

AN 2007064093 MEDLINE

DN PubMed ID: 17222052

- TI Label-free protein biosensor based on aptamer-modified carbon nanotube field-effect transistors.
- AU Maehashi Kenzo; Katsura Taiji; Kerman Kagan; Takamura Yuzuru; Matsumoto Kazuhiko; Tamiya Eiichi
- SO Analytical chemistry, (2007 Jan 15) Vol. 79, No. 2, pp. 782-7. Journal code: 0370536. ISSN: 0003-2700.
- CY United States
- DT Letter

(RESEARCH SUPPORT, NON-U.S. GOV'T)

- LA English
- FS Priority Journals
- EM 200703
- ED Entered STN: 3 Feb 2007 Last Updated on STN: 24 Mar 2007 Entered Medline: 22 Mar 2007
- AΒ We have fabricated label-free protein biosensors based on aptamer-modified carbon nanotube field-effect transistors (CNT-FETs) for the detection of immunoglobulin E (IgE). After the covalent immobilization of 5'-amino-modified 45-mer aptamers on the CNT channels, the electrical properties of the CNT-FETs were monitored in real time. The introduction of target IgE at various concentrations caused a sharp decrease in the source-drain current, and a gradual saturation was observed at lower concentrations. The amount of the net source-drain current before and after IgE introduction on the aptamer-modified CNT-FETs increased as a function of IqE concentration. The detection limit for IqE was determined as 250 pM. We have also prepared CNT -FET biosensors using a monoclonal antibody against IqE (IgE-mAb). The electrical properties of the aptamer- and antibody-modified CNT-FETs were compared. The performance of aptamer-modified CNT-FETs provided better results than the ones obtained using IgE-mAb-modified CNT-FETs under similar conditions. Thus, we suggest that the aptamer-modified CNT-FETs are promising candidates for the development of label-free protein biosensors.
- AB We have fabricated label-free protein biosensors based on aptamer-modified carbon nanotube field-effect transistors (CNT-FETs) for the detection of immunoglobulin E (IgE). After the covalent immobilization of 5'-amino-modified 45-mer aptamers on the CNT channels, the electrical properties of the CNT-FETs were monitored in real time. The introduction of target IgE at various concentrations caused a sharp decrease in the source-drain current, and a gradual saturation was observed at lower concentrations. The amount of the net source-drain current before and after IgE introduction on the aptamer-modified CNT-FETs increased as a

function of IgE concentration. The detection limit for IgE was determined as 250 pM. We have also prepared CNT -FET biosensors using a monoclonal antibody against IgE (IgE-mAb). The electrical properties of the aptamer- and antibody-modified CNT-FETs were compared. The performance of aptamer-modified CNT-FETs provided better results than the ones obtained using IgE-mAb-modified CNT-FETs under similar conditions. Thus, we suggest that the aptamer-modified CNT-FETs are promising candidates for the development of label-free protein biosensors.

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L10 ANSWER 3 OF 3 MEDLINE on STN
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AN 2006463358 MEDLINE

DN PubMed ID: 16886472

TI [Concentration of allergic fungi spores in the air of flats in Lodz]. Stezenie zarodnikow grzybow alergogennych w powietrzu mieszkan w Lodzi.

AU Krawczyk P; Kowalski M L; Ochecka-Szymanska A

CS Studenckie Kolo Naukowe przy Katedrze Biologii i Parazytologii Lekarskiej AM 90-436 Lodz.

SO Wiadomosci parazytologiczne, (1999) Vol. 45, No. 2, pp. 255-62. Journal code: 0420554. ISSN: 0043-5163.

CY Poland

DT (ENGLISH ABSTRACT)
Journal; Article; (JOURNAL ARTICLE)

LA Polish

FS Priority Journals

EM 200611

AB

ED Entered STN: 5 Aug 2006 Last Updated on STN: 19 Dec 2006 Entered Medline: 30 Nov 2006

The real contribution of moulds to the pathogenesis of allergic diseases AB remains unknown, although positive skin prick tests and/or specific serum IgE to moki allergens can be detected in 1-5% of atopic patients. A significant problem in assessment of exposure to mould allergens, resulting with difficulty in standarization of methods. The aim of this work was to assess the concentration of spores of 8 mould species in flats inhabited by peoples who Bont show any symptoms of allergy. The Open Petri Dish (OPD) method involving sedimentation of participles contained in the column of air over the dish was used to assess the number of spores in 1 m3 of indoor atmospheres. All colonies were counted, but only 8 mould species implicated in inhaled allergy were identified, ie.: Alternaria tenuis, Cladosporium herbarum, Helminthosporum halodes, Pullularia pullulans, Penicillium notatam, Rhizopus nigricans, Mucor mucedo, Aspergillus fumigatus. The tests were carried out in 10 flats located in various quarters of the cify of Lodz during three consecutive days of September 1995 between 5:00 pm and 6:04 pm. In analyzing the percentage of spores of each of the eight mould species tested we determined that, independent of fiat and test day, C. herbarum predominated. It is good agreement with the observations of other authors who report that among large quantities of fungi that are detected in late summer, usually C. herbarum spores dominate. This is the season when the incidence of the Cladosporium spores in the atmospheric air increases. Spores of H. halodes were detected least frequently. Our study demonstrated the presence of substantial amounts of mould spores in indoor air of houses in Lodz. The spores belong to species with documented allergenicity, suggesting that they may play a role in development of allergic sensitization in susceptible subjects.

. . . real contribution of moulds to the pathogenesis of allergic diseases remains unknown, although positive skin prick tests and/or specific serum IgE to moki allergens can be detected in 1-5% of atopic patients. A significant problem in assessment of exposure to mould. . . of this work was to assess the concentration of spores of 8 mould species in flats inhabited by peoples who Bont show any symptoms of allergy. The Open Petri Dish (OPD) method involving sedimentation of

participles contained in the column of. . .